```
5'
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met gln thr arg arg val val leu lys ser ala ala ala gly thr leu leu gly

GGC CTG GCT GGG TGC GCG ACG TGG CTG GAT CGA TCG GCA CAG GCG ATC GGA TCA
gly leu ala gly cys ala thr trp leu asp arg ser ala gln ala ile gly ser

ATA CGT GCG CGT CCT ATC ACA ATC TCT GAA GCG GGT TTC ACA CTG ACT CAC GAG
ile arg ala arg pro ile thr ile ser glu ala gly phe thr leu thr his glu

GAC ATC TGC GGC AGC TCG GCA GGA TTC TTG CGT GCT TGG CCA GAG TTC TTC GGT
asp ile cys gly ser ser ala gly phe leu arg ala trp pro glu phe phe gly

AGC CGC AAA GCT CTA GCG GAA AAG GCT GTG AGA GGA TTG CGC GCC AGA GCG GCT
ser arg lys ala leu ala glu lys ala val arg gly leu arg ala arg ala ala

GGC GTG CGA ACG ATT GTC GAT GTG TCG ACT TTC GAT ATC GGT CGC GAC GTC AGT
gly val arg thr ile val asp val ser thr phe asp ile gly arg asp val ser

TTA TTG GCC GAG GTT TCG CGG GCT GCC GAC GTT CAT ATC GTG GCG GCG ACC GGC
leu leu ala glu val ser arg ala ala asp val his ile val ala ala thr gly

TTG TGG TTC GAC CCG CCA CTT TCG ATG CGA TTG AGG TAT GTA GAG GAA CTC ACA
leu trp phe asp pro pro leu ser met arg leu arg tyr val glu glu leu thr

CAG TTC TTC CTG CGT GAG ATT CAA TAT GGC ATC GAA GAC ACC GGA ATT AGG GCG
gln phe phe leu arg glu ile gln tyr gly ile glu asp thr gly ile arg ala

GGC ATT ATC AAG GTC GCG ACC ACA GGC AAG GCG ACC CCC TTT CAG GAG TTA GTG
gly ile ile lys val ala thr thr gly lys ala thr pro phe gln glu leu val

TTA AAG GCG GCC GCC CGG GCC AGC TTG GCC ACC GGT GTT CCG GTA ACC ACT CAC
leu lys ala ala ala arg ala ser leu ala thr gly val pro val thr thr his

ACG GCA GCA AGT CAG CGC GAT GGT GAG CGA GGC AGG CCG CCA TTT TTG AGT CCG
thr ala ala ser gln arg asp gly glu arg gly arg pro pro phe leu ser pro

AAG CTT GAG CCC TCA CGG GTT TGT ATT GGT CAC AGC GAT GAT ACT GAC GAT TTG
lys leu glu pro ser arg val cys ile gly his ser asp asp thr asp asp leu

AGC TAT CTC ACC GCC CTG CTG CGC GGA TAC CTC ATC GGT CTA GAC CAC ATC CCG
ser tyr leu thr ala leu leu arg gly tyr leu ile gly leu asp his ile pro

CAC AGT GCG ATT GGT CTA GAA GAT AAT GCG AGT GCA TCA CCG CTC CTG GGC ATC
his ser ala ile gly leu glu asp asn ala ser ala ser pro leu leu gly ile

CGT TCG TGG CAA ACA CGG GCT CTC TTG ATC AAG GCG CTC ATC GAC CAA GGC TAC
arg ser trp gln thr arg ala leu leu ile lys ala leu ile asp gln gly tyr

ATG AAA CAA ATC CTC GTT TCG AAT GAC TGG CTG TTC GGG TTT TCG AGC TAT GTC
met lys gln ile leu val ser asn asp trp leu phe gly phe ser ser tyr val

ACC AAC ATC ATG GAC GTG ATG GAT CGC GTG AAC CCC GAC GGG ATG GCC TTC ATT
thr asn ile met asp val met asp arg val asn pro asp gly met ala phe ile

CCA CTG AGA GTG ATC CCA TTC TAC GAG AGA AGG GCG TCC CAC AGG AAA CGC TGC
pro leu arg val ile pro phe tyr glu arg arg ala ser his arg lys arg cys

CAG GCA TCA CTG TGA
gln ala ser leu  .
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3'
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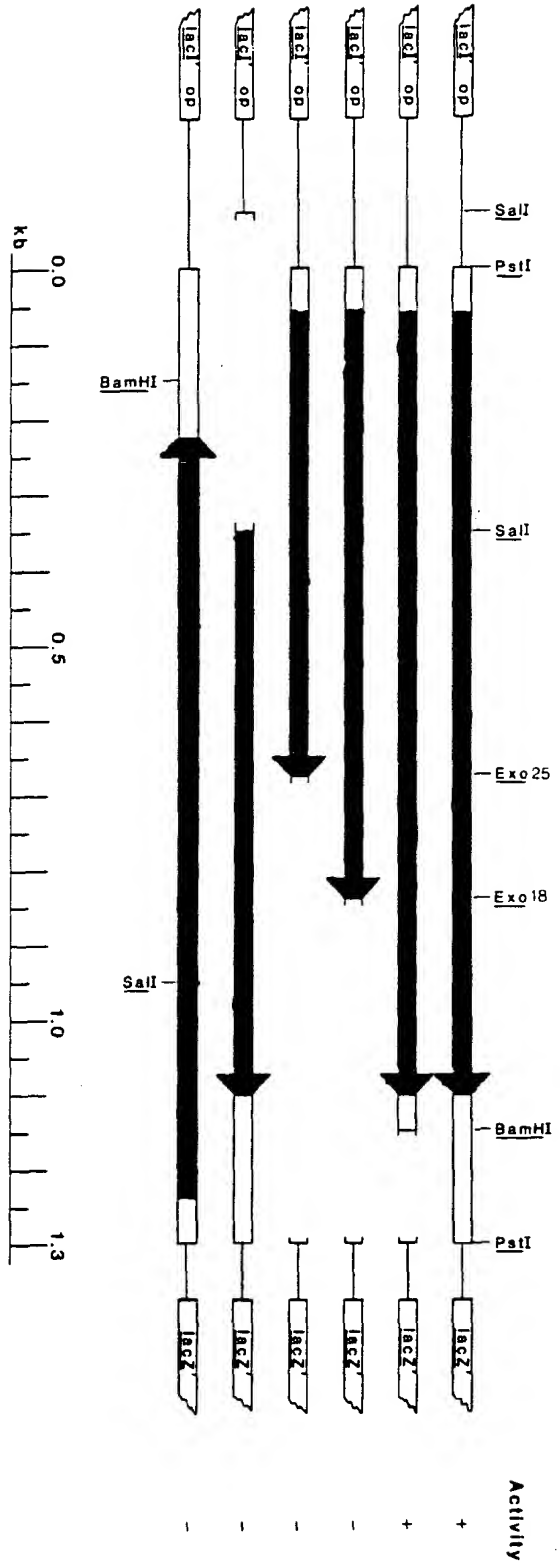
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lacZ'
SalI
PstI
BamHI
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Activity
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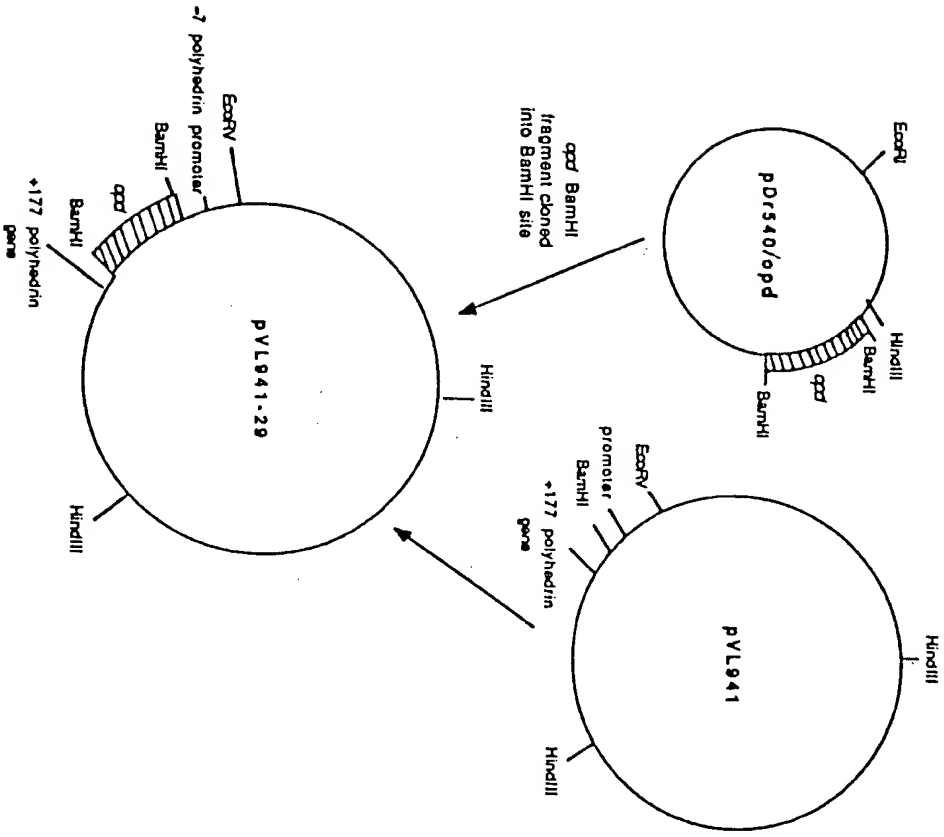
-
-
-
+
+

Figure 2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EcoRI
HindIII
BamHI
opd
BamHI
opd BamHI fragment cloned into BamHI site
pVL941-29
EcoRV
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BamHI
opd
BamHI
+177 polyhedrin gene
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HindIII
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EcoRV
promoter
BamHI
+177 polyhedrin gene
HindIII
HindIII

Figure 3

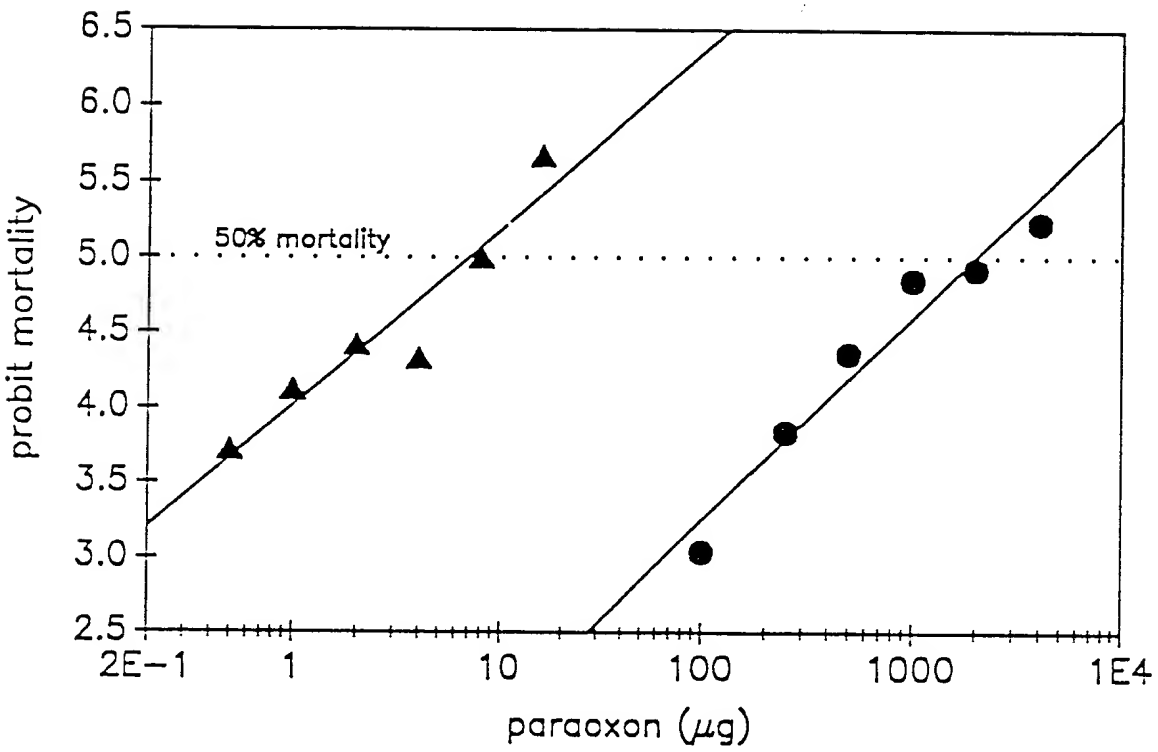

6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
probit mortality
50% mortality
2E−1
1
10
100
1000
1E4
paraoxon (μg)

Figure 4

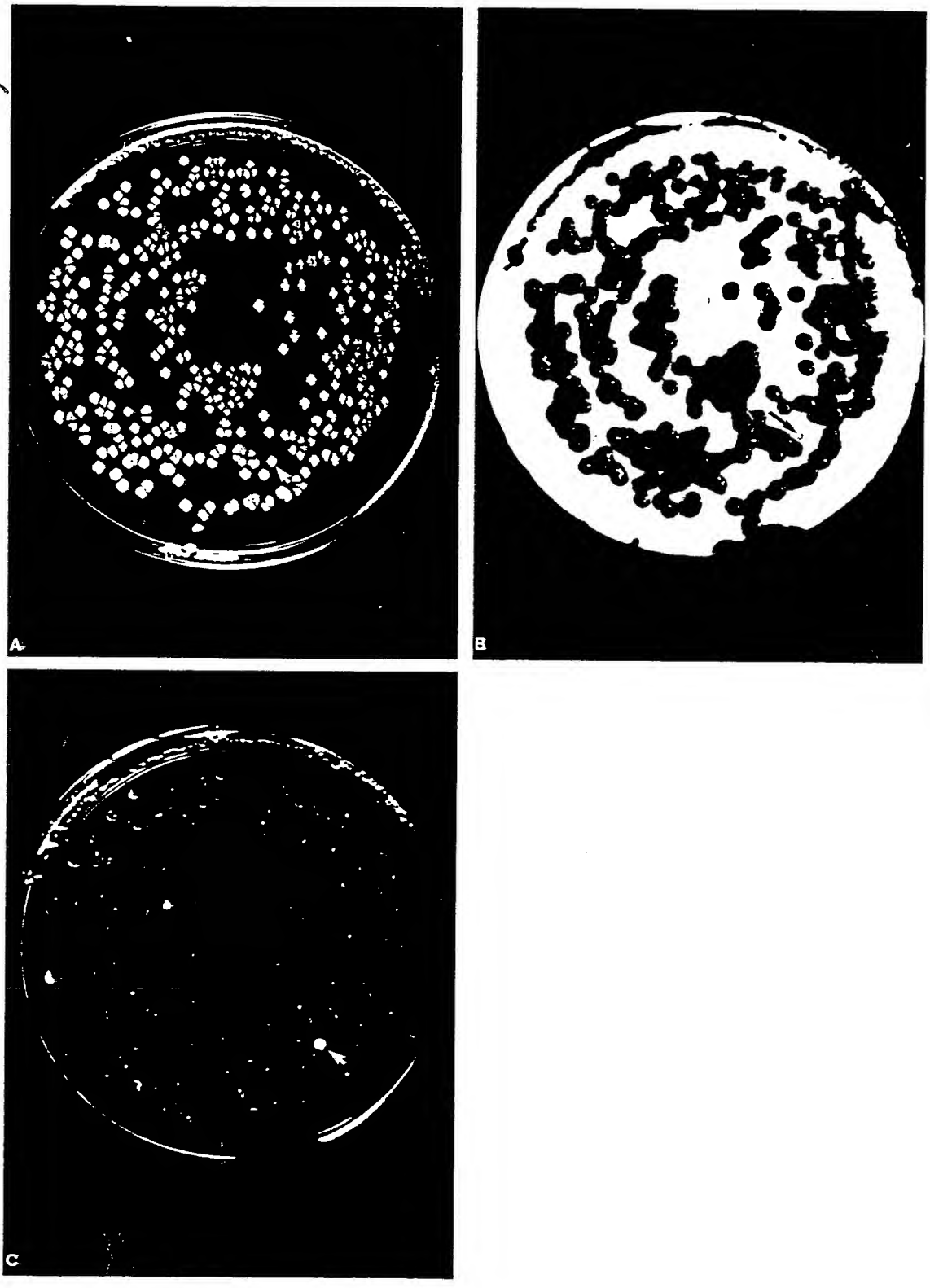
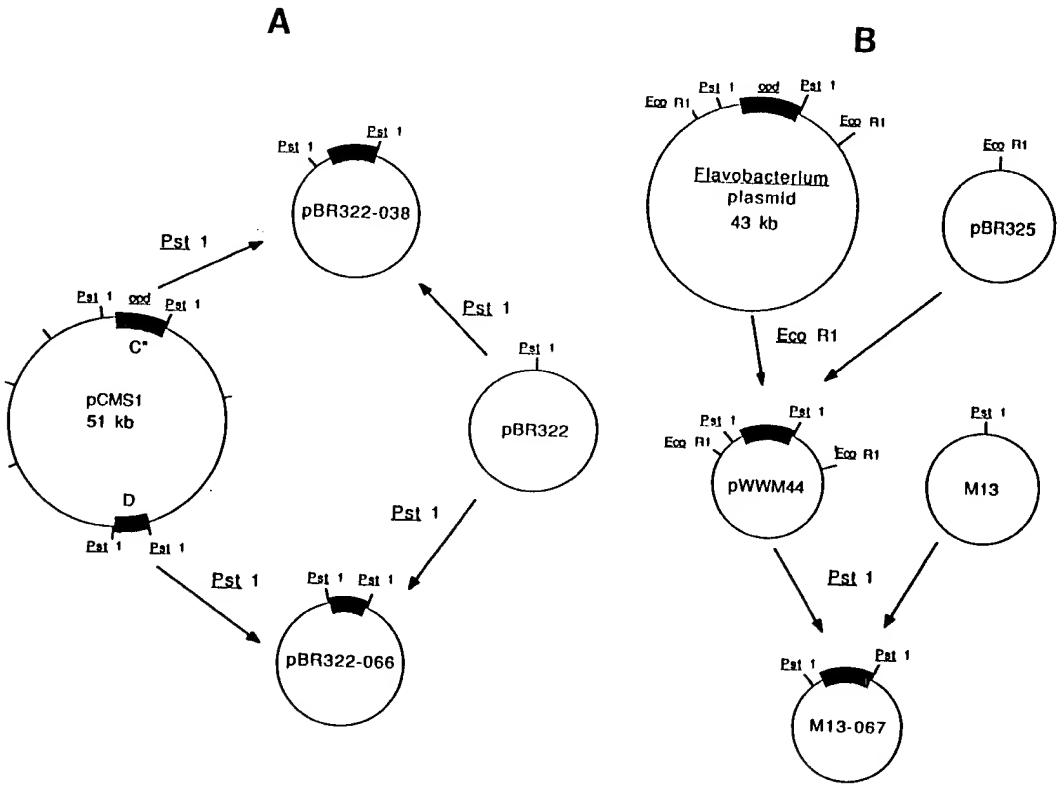


Figure 5

07/344258



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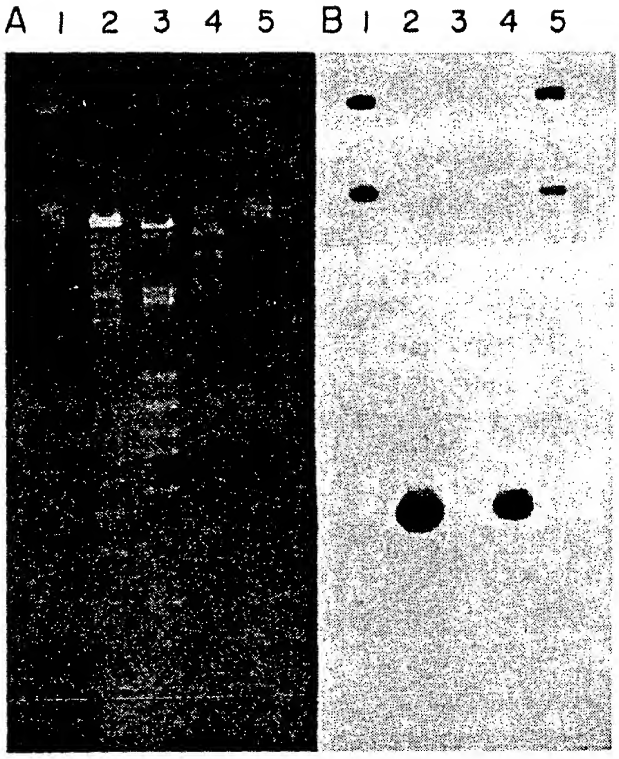

Figure7

07/344258

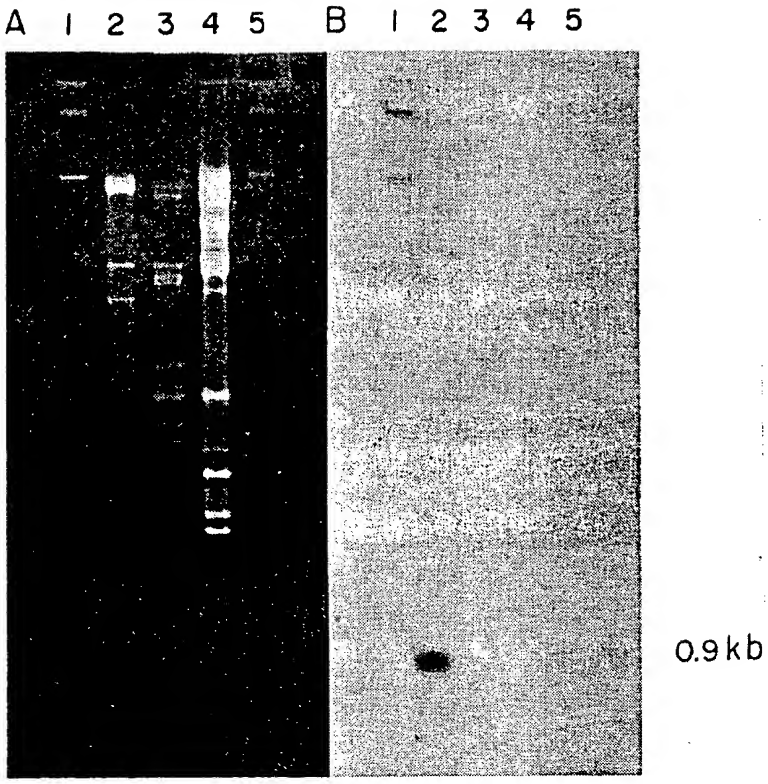

Figure 8